# SEVERE THUNDERSTORM REPORTING REFERENCES

# **CLOUD IDENTIFICATION REFERENCE**



### Shelf Cloud (A)

- A horizontal, shelf-like cloud on the leading edge of the thunderstorm
- Signals the approach of the downdraft, which includes heavy rain, gusty winds, and sometimes hail
- ID Tip: Slopes away from the rain
- Beware: Shelf clouds can appear to touch the ground, and can look different when viewing from the side
- Can rotate about a **HORIZONTAL** axis
- No need to report to the NWS

#### Wall Cloud (B)

- A ROTATING lowering from a T-storm updraft base. Often precedes a funnel cloud and tornado.
- Rotation must be about a **VERTICAL** axis
- ID Tip: Slopes down and *towards* the rain

#### Funnel Cloud (C)

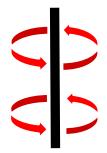
- A VIOLENTLY ROTATING column of air that is NOT in contact with the ground
- Rotation must be about a **VERTICAL** axis
- ID Tip: Rapidly rotating cloud edges look smooth (versus ragged).

## Tornado (D)

- A VIOLENTLY ROTATING column of air in contact with the ground
- Rotation must be about a **VERTICAL** axis
- ID Tip: Rapidly rotating cloud edges look smooth (versus ragged). To see if it is contact with the ground, look for debris or dust circulating at the surface.

#### SCUD (E)

- Harmless, ragged looking clouds that do NOT rotate
- Can move up and down, may look turbulent. May look like they are touching the ground
- Responsible for a majority of false funnel cloud and tornado reports
- ID Tip: Edges of the cloud look ragged (instead of smooth like rapidly rotating clouds).



Rotation about a vertical axis

# WIND SPEED ESTIMATION CHART

_	moving. Wires whistle.
32-38 mph Whole trees moving	Some difficulty when walking into the wind.
39-46 mph Small branches or to	vigs break off. Cars veer when driving.
47-54 mph Slight structural dan	age (shingles blown off). Large branches break off.
55-63 mph Structural damage (	parts of roofs blown off). Trees uprooted or snapped off.
64-73 mph Widespread structu	ral damage (whole roof removed, walls blown in, etc.)

## HAIL SIZE ESTIMATION CHART



# PLEASE REPORT THE FOLLOWING IMMEDIATELY TO THE NWS

REMEMBER:  $\underline{T}$ IME,  $\underline{\underline{F}}$ VENT,  $\underline{\underline{L}}$ OCATION

Wind damage -Large healthy limbs, structural damage, or trees uprooted

Hail -Any size! Report the size of the largest stone!

Flooding -Water rising rapidly, flowing over roads, flooding buildings

Rotation -Wall clouds, funnel clouds, and tornadoes

# NWS NORTHERN INDIANA CONTACT INFO



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